

Variable	Mean	Standard deviation	Minimum	Maximum
Age	33.5	10.5	18	65
Gender	0.50	0.50	0	1
Marital status	0.50	0.50	0	1
Education	12.5	1.5	9	16
Income	1.5	0.5	1	3
Occupation	1.5	0.5	1	3
Religion	1.5	0.5	1	3
Health	1.5	0.5	1	3
Stress	1.5	0.5	1	3
Depression	1.5	0.5	1	3
Life satisfaction	1.5	0.5	1	3
Quality of life	1.5	0.5	1	3
Physical health	1.5	0.5	1	3
Mental health	1.5	0.5	1	3
Social health	1.5	0.5	1	3
Environmental health	1.5	0.5	1	3
Overall health	1.5	0.5	1	3

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Assistant Commissioner of Patents  
Washington, D.C. 20231

Sir:

IN THE CLAIMS:

EXPRESS MAIL EL400659261US

2. (amended) The nucleic acid sequence or part thereof according to claim 1, wherein the sequence has at least 80% homology with the nucleic acid sequence as depicted in SEQ ID NO: 1.

4. (amended) The nucleic acid sequence or part thereof according to claim 1, wherein the sequence has at least 80% homology with the nucleic acid sequence depicted in SEQ ID NO: 3.

6. (amended) The recombinant DNA molecule comprising a nucleic acid sequence according to claims 1-4, under the control of a functionally linked promoter.

7. (amended) Live recombinant carrier comprising a DNA fragment according to claim 5.

10. (amended) The *Lawsonia intracellularis* protein according to claim 9, having a sequence homology of at least 80% homology to the amino acid sequence as depicted in SEQ ID NO:2, or an immunogenic fragment of said protein.

12. (amended) The *Lawsonia intracellularis* protein according to claim 11, having a sequence homology of at least 80% homology to the amino acid sequence as depicted in SEQ ID NO: 4, or an immunogenic fragment of said protein.

Please cancel claims 16 and 17 without prejudice or disclaimer of the subject matter thereof.

Please add new claims 28 - 38 as follows:

-- 28. The nucleic acid sequence or part thereof according to claim 1, wherein the sequence has at least 90% homology with the nucleic acid sequence as depicted in SEQ ID NO: 1. --



amino acid sequence as depicted in SEQ ID NO: 4, or an immunogenic fragment of said protein. --

-- 38. A vaccine for combating *Lawsonia intracellularis* infection comprising a protein according to claims 9 - 15. --

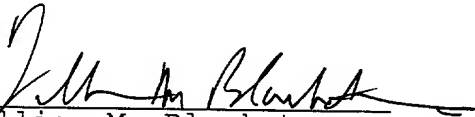
REMARKS

Claims 2, 4, 6, 7, 10 and 12 are amended, claims 16 and 17 are canceled, and claims 28 - 28 are added. Claims 1 - 15 and 18 - 38 are presented for examination.

The present amendments are made in order to correct grammatical errors and to conform the claim language to accepted U.S. PTO practice, and not for purposes of patentability under 35 USC 101, 102, 103 or 112, and no estoppel is created hereby.

It is believed that claims 1 - 15 and 18 - 38 recite a patentable improvement in the art. Favorable action is solicited. In the event any fees are required with this paper, please charge our Deposit Account No. 02-2334.

Respectfully submitted,

  
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

2. (amended) [Nucleic] The nucleic acid sequence or part thereof according to claim 1, [characterised in that] wherein the sequence has at least 80%[, preferably 90%, more preferably 95%] homology with the nucleic acid sequence as depicted in SEQ ID NO: 1.

4. (amended) [Nucleic] The nucleic acid sequence or part thereof according to claim 1, [characterised in that] wherein the sequence has at least 80%[, preferably 90%, more preferably 95%] homology with the nucleic acid sequence depicted in SEQ ID NO: 3.

6. (amended) [Recombinant] The recombinant DNA molecule comprising a nucleic acid sequence according to claims 1-4 [or a DNA fragment according to claim 5], under the control of a functionally linked promoter.

7. (amended) Live recombinant carrier comprising a DNA fragment according to claim 5 [or a recombinant DNA molecule according to claim 6].

10. (amended) The *Lawsonia intracellularis* protein according to claim 9, having a sequence homology of at least 80%[, preferably 90%, more preferably 95%] homology to the amino acid sequence as depicted in SEQ ID NO:2, or an immunogenic fragment of said protein.

FOOTNOTES

12. (amended) The *Lawsonia intracellularis* protein according to claim 11, having a sequence homology of at least 80%[, preferably 90%, or more preferably 95%] homology to the amino acid sequence as depicted in SEQ ID NO: 4, or an immunogenic fragment of said protein.

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